

19991013.ba v02_n700.bam.991013

>From ???@??? Thu Oct 14 03:13:29 1999
Message-Id: <199910140316.d9E3Gi120694@sco.theporch.com>
Date: Wed, 13 Oct 1999 22:16:10 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2700

BOATANCHORS Digest 2700

Topics covered in this issue include:

- 1) MORE NAILS IN THE RECEIVER
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 2) Re: MORE NAILS IN THE RECEIVER
by Hue Miller <kargokult@proaxis.com>
- 3) Washington DC area lecture on National & Hallicrafters
by hikrbikr@erols.com
- 4) Re: YE homing transmitter question
by Hue Miller <kargokult@proaxis.com>
- 5) Re: in re "70 Days"
by Jim Isbell <mfalcon@pyramid3.net>
- 6) Manual or address needed
by Jderm740@aol.com
- 7) Help with SP600-JX-14
by GeorgeHumphrey <gah@koyote.com>
- 8) cleaning relay contacts
by "Lane Zeitler Ku7i" <zeitler@attglobal.net>
- 9) Kinda BA question about broadband transformers
by "Bob Duckworth" <wb4mnf@atl.org>
- 10) Relay contacts
by "Andrew Emmerson" <midshires@cix.co.uk>
- 11) Collins Broadcast Consoles FS
by "Jay H. Miller" <jmiller@teleteam.net>
- 12) Re: cleaning relay contacts
by w8au@sssnet.com
- 13) ADMINISTRIVIA: Fancy HTML in Posts
by listown@jackatak.theporch.com (Mail List Owner)
- 14) FS:Misc.
by Bob - W7AVK <rsrolfne@atnet.net>
- 15) RE: YE antenna question
by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
- 16) thanks for all the replies abt relay cleaning
by "Lane Zeitler Ku7i" <zeitler@attglobal.net>
- 17) Re: Help with SP600-JX-14
by Arden Allen <gumbear@pacbell.net>
- 18) Re: cleaning relay contacts

by Morris Odell <morriso@vifp.monash.edu.au>
19) FS/T: ITT Mackay 3021A receiver
by Doug Hall <kf4kl@ipass.net>
20) RE: YE antenna question
by Hue Miller <kargokult@proaxis.com>
21) transformer ID: Leece & Neville TA-1000C
by Hue Miller <kargokult@proaxis.com>
22) re: crystals question
by Hue Miller <kargokult@proaxis.com>
23) RE: YE antenna question
by William Donzelli <aw288@osfn.org>

MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit
Date: Tue, 12 Oct 1999 18:24:24 -0400 (EDT)
Subject: MORE NAILS IN THE RECEIVER
To: Old Tube Radios <boatanchors@theporch.com>
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
Message-ID: <9910121824.aa08906@pcusa01.ecunet.org>

To: boatanchors@theporch.com

My Halli SX-100 arrived with a short piece of #12 copperweld (copper plated steel) wire soldered between adjacent sections of the main tuning cap in an attempt to give it some much-needed fore & aft mech. stability. Can't vouch for fix as I haven't removed it to compare.

-John Sehring (Mon, Oct 11, 1999 Custer SD USA) UCC WB0EQ

Message-Id: <3.0.5.32.19991012194042.007f48c0@proaxis.com>
Date: Tue, 12 Oct 1999 19:40:42 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Hue Miller <kargokult@proaxis.com>
Subject: Re: MORE NAILS IN THE RECEIVER
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:24 PM 10/12/99 -0400, JOHN SEHRING wrote:

>My Halli SX-100 arrived with a short piece of #12 copperweld (copper plated
>steel) wire soldered between adjacent sections of the main tuning cap in an
>attempt to give it some much-needed fore & aft mech. stability.

Was this soldered to join each plate as it crossed it, then proceeded on to the next section? I would be leery of feedback troubles at the highest

frequencies, but apparently you didn't experience this.
BTW, was this some kind of published 'hint & kink' type item?
Hue

From: hikrbikr@erols.com
Message-ID: <380116E4.29A1@erols.com>
Date: Sun, 10 Oct 1999 23:44:52 +0100
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Boatanchors <boatanchors@theporch.com>,
"Barry L. Ornitz" <ornitz@tricon.net>
Subject: Washington DC area lecture on National & Hallicrafters
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

David... You asked the group...

> Did anyone make it to this event?

Well, I did. The speaker, Ed Kesler, a long retired engineer of the Naval Electronic Systems Command (now Space and Naval Warfare Systems Command) gave an excellent presentation of two fatal contracts involving transmitters for naval air station tower use. Ed had personal knowledge of these contracts, both companies' struggle to meet contract requirements in an era of severe inflation, and company management actions that led to severe financial problems. It struck me as ironic that these two companies, mainly remembered by us for their famous receivers, foundered on transmitter projects.

> I'd love to see a transcript or even read a synopsis

Ed provided a shortened version of his talk to me on disk and I'll send it to Barry WA4VZQ of this list, who kindly offered to put it in the BA Archive for all to read.

> was there any talk of National's military swan song,
> the R-1490/GRR-17?

No. The transmitters that Ed told us about were the AN/URT-25 and AN/URT-22 that National contracted to build for the Navy, and the AN/FRT-24 (a Collins-made AM transmitter) that Hallicrafters ended up with a contract to modify for SSB operation as the AN/FRT-24A. Ed didn't discuss receivers or any other equipment. He may know about the unit you cited, however, and I will forward your message.

BTW, for Washington DC area BA folks, the next meeting of the Vienna Wireless Society on 22 OCT will feature as its guest speaker, Dr. Ted

Cohen, N4XX & co-author of The NEW Shortwave Propagation Handbook, advertised in CQ Magazine. His topic will be 160M propagation. All who can make it are welcome to attend.

73, Mike Steussy AE4R
Vienna VA

Message-Id: <3.0.5.32.19991012195629.007b6d60@proaxis.com>
Date: Tue, 12 Oct 1999 19:56:29 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Hue Miller <kargokult@proaxis.com>
Subject: Re: YE homing transmitter question
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:05 AM 10/12/99 -0400, Marty's Refl. Drop wrote:

>> Was the YE antenna somehow slaved to a compass....

>

>>>--I'm sure this wasn't the case

>

>Well it was the case

--okay, i'll buy that, altho it seems to me it would also work for homing even without this feature. Seems to me if you cross 2 distinct beams, you then know the direction to fly, without any other information.

>

>The ARN-1/NavyBC-946 (Cxxxx #?) system-pair worked with the YE in the
>aircraft.

--Not to be too picky, but you probably mean ARR-1 here, no?

>

>Two aircraft in each squadron of 8 had the ARN-1/NavyBC-946
>system-pair

--just curious: what reason for that? security - in case of loss of plane -or?
If you were a straggler or lone survivor, this could be bad news.

>So when you heard the letter you'd then turn & fly the reciprocal course
>right back to the carrier.

--Since the system related to the compass, wouldn't you note the letter heard, compare it to the compass, then determine the direction to fly? or?

>Gotta be people out there that used the stuff.

>

>And gotta be scads of nav-error stories fm having wrong codes* or

>mis-reading morse.

--i wasn't there, but i wouldn't guess either of these as problems, rather:
just not having the gear; failure of equipment or out of range; or being
so stressed or tired that mistakes are made in its use.

Hue Miller

Message-Id: <3.0.5.32.19991012222423.007c5db0@pyramid3.net>

Date: Tue, 12 Oct 1999 22:24:23 -0500

To: Old Tube Radios <boatanchors@theporch.com>

From: Jim Isbell <mfalcon@pyramid3.net>

Subject: Re: in re "70 Days"

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

At 05:38 PM 10/12/99 EDT, you wrote:

>Ur soapbox is appreciated and I couldn't agree more. You may have noticed
>that the words "Novistors" and "Exxon Valdease" have some similarity to the
>real ones except for the spelling!!!!!!! The same group who wants one or
two

>people driving a ship cannot spell. Its called the dumbing down of
America.

>"Too many \$4.50 flashbulbs on 50 cent cameras".

This does not belong on this list and I would not respond here except the
person that made this statement, that attacks me, did it on this list. I
hope if this person has any more to say about it he does so to me
personally off the list.

As to "dumbing down", I will match my advanced degree against yours any day.

As to two persons driving a ship, there was a time that someone of your
mental ability said "There is nothing more to invent."

As to the spelling, I made no attempt to perfect my spelling as the idea
was adequately presented. Communication is not an art so much as a
science. If you cannot attack my ideas on a logical level, please refrain
from attacking around the edge.

As to the referral to a previous post that suggested that jobs be saved
just for art, I AM one of those "old" displaced engineers but I did
something about it instead of just lament the loss of a job that was no
longer needed.

Now since I am new to this list, List Manager, you may kick me off the list
for this outburst, or you may be fair and tell the person who attacked me

to go back to lurking.

For the record, I love and collect the old radios for their craftsmanship and beauty but I would not support the preservation of jobs just for art sake or the continuation of the production of products no longer needed just to protect the jobs of "buggy whip manufactures".

Cheers,

Jim Isbell

From: Jderm740@aol.com
Message-ID: <98f21e5d.25355ca2@aol.com>
Date: Tue, 12 Oct 1999 23:55:14 EDT
Subject: Manual or address needed
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi All

Well I succumbed to the wyles of this siren with all her pretty meters and knobs.

She is a Hickok 156 Indicating Trace-o-meter. Anybody got an idea where I can get a manual? (laughs permited, if they of the polite type)

Jack McDermott Jderm740@aol.com

Message-Id: <3.0.6.32.19991012230730.017f0970@mail.koyote.com>
Date: Tue, 12 Oct 1999 23:07:30 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: GeorgeHumphrey <gah@koyote.com>
Subject: Help with SP600-JX-14
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

BAers,

My recently acquired SP600 has started a strange habit. On tuning into a frequency, when I turn up the RF Gain, the actual radio lags for some time before the gain comes up. This may be only a couple of seconds but up on 10M it may not come up at all. Another problem (same one maybe), on 10M I can slowly turn up the RF Gain until I am barely hearing the static, then I lose all audio. I don't have that problem down on 40M or 80M. But I do have the lag on all freqs. Any suggestions on where to start????

All help deeply appreciated,
73 George KC5WBV

Message-ID: <008901bf152b\$1e191300\$3d2a2581@km3g>
From: "Lane Zeitler Ku7i" <zeitler@attglobal.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: cleaning relay contacts
Date: Tue, 12 Oct 1999 20:29:08 -0700
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

What is the stuff to use when cleaning relay contacts?

Lane Zeitler
Ku7i
San Diego

Message-Id: <199910130505.BAA27992@hat-trick.atl.org>
From: "Bob Duckworth" <wb4mnf@atl.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Kinda BA question about broadband transformers
Date: Wed, 13 Oct 1999 00:59:09 +0100

I'm attempting my first homebrew VHF amp project and
using a pair of 4CX300A glommed into a SB200 carcass.

So far it all makes sense until I get to the input transformer.

I've got a parallel resonant input (high Z) and need 60V
from my 10W 6m TX which wants to see 50ohm.

So after talking to a few folks, I start reading in the handbook
about these broadband transformers. I come up with a resistor
to glom on across the resonant circuit that looks like 50ohm back through
a transformer that gives me the right grid voltage swing.

The turns ratio comes right out.

THEN I get to the part about how many turns.

The handbook sez that I want the low impedance side of the
transformer to have a minimum reactance of $4 \times$ the impedance
being matched. I know I don't need to plug 52Mc in and come up

with an impossible reactance. These things are broadband.
I can plug 10Mc in, get a reasonable number, and be good to go.

But it's really buggin me. Where do they get this number???
($X > 4 * Z$) at the lowest freq of interest must be true.

-bob

Message-ID: <086801bf155a\$57f24b80\$721899c2@oemcomputer>
From: "Andrew Emmerson" <midshires@cix.co.uk>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Relay contacts
Date: Wed, 13 Oct 1999 09:43:02 +0100
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>What is the stuff to use when cleaning relay contacts?

Clean, good-quality writing paper -- nothing else! Unless the contacts are severely crudded-up, squeezing the contacts closed whilst pulling a piece of writing paper through them should remove any dirt.

Emery paper and so on should be avoided; it will just scratch (or remove) the surface of the noble metal contacts. Over here in Britain you can buy (from RS Components) strips of contact cleaning paper that have been soaked in contact cleaning fluid. There are also some spatulas with micro-fine diamond powder on them but they should not be necessary for relays that have been used in normal atmospheres.

Andy G8PTH.

Message-Id: <103130301b42a3f2b62d9@[199.34.24.19]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 13 Oct 1999 08:58:36 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "Jay H. Miller" <jmiller@teleteam.net>
Subject: Collins Broadcast Consoles FS

Guys-- I have returned from 12 weeks TDY in the Texas Panhandle and am ready to proceed with disposing these two consoles.

I have two Collins 212G-1 broadcast consoles with an assortment of 356A-1 preamp modules, 409X-2 power supplies and 274K-1 relay units that I want to

pass along. Both could be restorable, one with little more than a repaint and the other with a repaint and more work. I have a nice 212F-1 which I plan to keep for studio use so there is just no sense in taking up space.

The 212G-1 is a late 1950s to mid 1960s tube-type console with up to 6 low level inputs, two medium level inputs and one net/remote channel. I do not have any extra program/monitor amps however but I do have an original manual.

Way more than one needs for amateur use but much less of a hog than some of Collins' larger consoles. Because of their weight and size, it will have to be pick up only in Dallas.

These pieces are offered as a package deal as parts from one will help restore the other. What's left could be offered by the restorer to others looking for parts.

Package price is \$400 (firm).

If you are seriously interested, let me know and we'll get together via e-mail. Again, both need what I would call considerable work but you could really have a beautiful, functional piece in the end with little additional cash outlay. They are not making these anymore and what few are out there are very hard to find (trust me on this one).

A couple of pixs:

<http://www.teleteam.net/~jmilller/212G.html>

73

***** #*****# *****
Jay H. Miller, KK5IM Dallas, Texas
The Pocket Guide to Collins Amateur Radio Equipment
Ready in December: A Pictorial History of Collins Amateur Radios
ARRL * AMI#846 * DXCC
E-Mail: jmilller@teleteam.net Home Page: <http://www.teleteam.com/~jmilller/>
***** Proud to be 100% Macintosh since 1984! *****

Message-Id: <3.0.5.32.19991013120533.007b8b10@mail.sssnet.com>
Date: Wed, 13 Oct 1999 12:05:33 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: w8au@sssnet.com
Subject: Re: cleaning relay contacts
Cc: boatanchors@theporch.com
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

You can pickup a "contact burnishing tool" at Graybar, or similar electrical source.....it resembles a very, very fine finger nail file type surface. It usually comes in the form of a "writing pen," with clip for storing in your shirt pocket. (where else, for real techs?)

Easiest, and very effective "tool" is a good clean 1 dollar bill (US). The texture is just right and the ink does not rub off. Hold the contacts together and slide the bill through a few times.

Just a few telecom hints passed down over the years.....

73,

Perry w8au

At 08:29 PM 10/12/99 -0700, you wrote:

>What is the stuff to use when cleaning relay contacts?

>

>Lane Zeitler

>Ku7i

>San Diego

>

>

>

Message-Id: <199910131615.d9DGF1C09677@jackatak.theporch.com>

From: listown@jackatak.theporch.com (Mail List Owner)

To: Old Tube Radios <boatanchors@theporch.com>

Subject: ADMINISTRIVIA: Fancy HTML in Posts

Date: Wed, 13 Oct 99 11:15:01 CDT

Gang-

Please accept this periodic posting as it is intended:

A suggestion that will help everyone on the list...

Many many of the members of the list read through text-based mailers on systems of other than WIntel origins... this is particularly true for those members who are "off-shore" where the technology is too expensive to justify. Just keep in mind that NOT everyone reads the list postings with the very latest windowed technology.

PLEASE avoid the use of HTML and "quoted printable" in your email. If you don't know what this means, then PLEASE get help and set your mailer up so that you send your posts to the list in "PLAIN TEXT" only, with NO fancy HTML.... generally, avoid fancy fonts and colors, which will force your mailer to use the fancy stuff, and creates the problem.

The problem is serious enough that we have taken steps to protect the list... we have created a filter that detects anything sent to the list that is not plain text, and deletes the rest of the message from the place where the non-text is detected.

You may have seen "FOBIDDEN FORMAT" in a post to the list, and wondered what happened... it is the phrase we insert to let the poster know that the post contained a binary, an attachment, HTML, a "vcard" or some other format that presents a problem to the List Processor... it enforces consideration of your fellow BoatAnchors members.

PLEASE use only plain text. Get help with setting your mailer to not send the fancy HTML and quoted printable.

PLEASE be considerate of the list resources and your fellow members.

Thanks for your attention

--

73

Jack, W4KH/Mobile - - - BoatAnchor Mailing List Owner - - -
listown@jackatak.theporch.com - "Plus ca change, plus c'est la meme chose"
"Il n'y a que les idiots qui ne changent jamais d'idee"
Wed Oct 13 11:15:01 CDT 1999

Message-ID: <3804C0C7.F6D91C0D@atnet.net>
Date: Wed, 13 Oct 1999 10:26:31 -0700
From: Bob - W7AVK <rsrolfne@atnet.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS:Misc.
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

For Sale -

EICO Model 722 VF0. Complete and seems to be working. No manual so can't verify calibration. All original knobs, etc. No extra holes or cabinet dings. Maybe a 7 to 8 out of 10. Price \$30 plus shipping from zip code 98837

B&W Model 350 type 204 AUDIO PHASE SHIFT NETWORK. New never used in

original box. This is the guy used in phasing type SSB transmitters of old and looks like a metal 6J5 octal tube. It develops two 90 degree phase shifted audio channels from a single input. Used in both tube type receiver and transmitter designs of old. Original paper work included which describes a phasing application article from the July - Aug. 1951 G. E. HAM NEWS. Price \$20 includes postage.

73's Bob W7AVK

Date: Wed, 13 Oct 1999 15:06:50 -0400
From: "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
Subject: RE: YE antenna question
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199910131507_MC2-88E0-18A0@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline

Hue, Dave & Group,

Actually, Hue, it was, just as Lenox stated. Since the =
aircraft over the horizon would have no idea what the =
ship's heading was, the letters were assigned to true =
bearing sectors, not relative. Just as with the TACAN =
transponders of a generation later, the antenna drive =
system and keyer were slaved to the stable elements =
(gyro compass portion only). =

I don't know about the AN/ARR-1 (ZB) but the =
AN/ARR-2 manuals have an example of a sector =
assignment sheet like the one which was carried in =
the aircraft, with blank spaces around the circle in =

which to write the days code assignment.

```
>> Was the YE antenna somehow slaved to a compass such that, as the ship=
>changed heading, the morse letters assigned to different directions woul=
>d
>change automatically?
>73
>Dave Ross      N7EPI      ross@hypertools.com
```

```
--I'm sure this wasn't the case. You still want to find the direction to
the
target, your home target, even if it is a (rather slowly) moving target.
Hue
<
```

Robert Downs
WA5CAB
Houston

```
-----
Message-ID: <00b201bf15c0$c4694280$f5b96520@km3g>
From: "Lane Zeitler Ku7i" <zeitler@attglobal.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: thanks for all the replies abt relay cleaning
Date: Wed, 13 Oct 1999 14:20:20 -0700
MIME-Version: 1.0
Content-Type: text/plain;
      charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
```

I have rcv'd over 20 replies so far abt what to use for the contacts on
relays. I will give a brief summary of what the results are. Too many folks
to reply to one at a time. Thanks for the great support.

Lane
Ku7i

```
-----
Date: Wed, 13 Oct 1999 16:56:18 -0700
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: Help with SP600-JX-14
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0FJK009N4G2FYB@mta3.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
```

Content-transfer-encoding: 7bit

Hi George;

> My recently acquired SP600 has started a strange habit. On tuning into a
> frequency, when I turn up the RF Gain, the actual radio lags for some
time
> before the gain comes up. This may be only a couple of seconds but up on
> 10M it may not come up at all. Another problem (same one maybe), on 10M I
> can slowly turn up the RF Gain until I am barely hearing the static, then
I
> lose all audio. I don't have that problem down on 40M or 80M. But I do
have
> the lag on all freqs. Any suggestions on where to start????

Tubes, capacitors and the negative bias supply. Substitute tubes one at a time and look for changes to sniff out some problems. Ground the AVC bus and measure voltages at various points with a high input resistance (at least 10 megs) voltmeter. Positive voltages on control grids indicate tubes with grid emission. Note the polarity of voltage drops across resistors in order to discover the source of voltages causing problems as well as leaky capacitors. There could be problems with screen grid voltages also, mostly due to leaky screen bypass caps. If in doubt install new caps instead of tearing your hair out. Check resistors along the way also. A bad 6AL5 bias rectifier and its associated resistors and capacitor, look to see if its output voltage varies a lot. Keep poking and keep looking at that schematic. Have fun.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-ID: <38052E7A.544F95E5@vifp.monash.edu.au>

Date: Thu, 14 Oct 1999 11:14:34 +1000

From: Morris Odell <morriso@vifp.monash.edu.au>

MIME-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: cleaning relay contacts

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

w8au@sssnet.com wrote:

> Easiest, and very effective "tool" is a good clean 1 dollar bill (US). The
> texture is just right and the ink does not rub off.

But what about all those cocaine residues that are said to be a feature of the US paper money supply? Might they not make the relay a bit

"jumpy"?

;-)

de Morris VK3DOC

From: Doug Hall <kf4kl@ipass.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS/T: ITT Mackay 3021A receiver
Date: Wed, 13 Oct 1999 21:37:26 -0400
Message-ID: <Fi4F0IX12pJP7+abhDuMpXhmPzXg@4ax.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

Hi folks,

I have an ITT Mackay 3021A receiver that I'd like to sell or swap for something. The receiver is in good condition cosmetically, but doesn't work. The IF strip appears to be OK, and the preselector appears to be OK, but it doesn't receive. The problem seems to be related to the synthesizer. That's as far as I have gotten with it. I've had this receiver for over 5 years, and I've got too many other projects (BA, DSP, and antenna related) to spend any time looking at it, so I'd like to find a home for it. As far as I know there are no synthesizer parts used that are no longer available. In other words, while the receiver doesn't work, I'm confident that it can be fixed. But if all you've got for test equipment is an Eico scope without triggered sweep and a Simpson 260, you might have a hard time.

I have the original manual for it, which includes full schematics, theory of operation, etc. All the modules are there. Some specs:

=46frequency range: 15 - 30000 kHz
Selectivity: 8/2/1/.4 kHz
Modes: AM/CW/LSB/USB

This is a rack-mount receiver, but the matching (and somewhat rare) desktop cabinet is included. And no, I won't sell or trade the desktop cabinet separately.

I'm open to radio-related trades of all types, including, but not limited to:

BA receivers or transmitters
3-500Z chimneys (I'm building an amp)
A decent signal generator for BA work
A Tek 465 or 475 scope

An Icom 706Mk2 or Mk2G
Other interesting stuff

+/- cash, of course, depending on what you have. Trades preferred, as I have no idea what the receiver is worth. As Grandpa always said, "How much it's worth depends on how bad you want it."
73,
Doug, KF4KL

Message-Id: <3.0.5.32.19991013201228.007f8400@proaxis.com>
Date: Wed, 13 Oct 1999 20:12:28 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Hue Miller <kargokult@proaxis.com>
Subject: RE: YE antenna question
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 03:06 PM 10/13/99 -0400, ROBERT W. DOWNS wrote:
>Hue, Dave & Group,

>Actually, Hue, it was, just as Lenox stated. Since the
>aircraft over the horizon would have no idea what the
>ship's heading was, the letters were assigned to true
>bearing sectors, not relative.

-i'm still thinking even if this true bearing sytem failed, once you crossed from one beam to another, you have enough basic information to give you a start in the right direction, then you can refine it from there. Because the letters have some set sequence, there's no 180 degree ambiguity. The ship's not moving that fast, compared to the aircraft, and even without compass reference, you still have, basically, a radio homing beacon, no? Also - over the horizon? At 250 Mc/s, probably not very far over the horizon, or?
Hue

Message-Id: <3.0.5.32.19991013201658.007f09c0@proaxis.com>
Date: Wed, 13 Oct 1999 20:16:58 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Hue Miller <kargokult@proaxis.com>
Subject: transformer ID: Leece & Neville TA-1000C
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I was looking at this transformer from storage, it has 2 husky wires about 10-12 ga. one side and the other winding goes right to a 120 AC wall socket

right on the transformer. Says part of 6V alternator system. I had thot of using this backward, as a big 6v xfmr. Which i probably will not do. But, i am very curious, what kind of system did this come out of? Sez "250 watts", and weighs like it. tnx, Hue Miller

Message-Id: <3.0.5.32.19991013202132.007f6530@proaxis.com>
Date: Wed, 13 Oct 1999 20:21:32 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Hue Miller <kargokult@proaxis.com>
Subject: re: crystals question
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I was digging around thru some bags of crystals and found a bunch in the CR-?? common boat radio sized crystals with frequencies in the 15 - 22 MHz range. I'm supposing that they might have come out of some SSB boat radio, with right offset for some strange boatradio IF, like 10.7 or 5.5 or something. But my question is, are the 21 MHz range crystals likely to be fundamentals, or overtone? I say a couple that were on the 15 meter band.
tnx, Hue Miller

Date: Wed, 13 Oct 1999 23:12:02 -0400 (EDT)
From: William Donzelli <aw288@osfn.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: YE antenna question
Message-ID: <Pine.SUN.3.91-FP.991013230656.12583D-100000@osfn.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> The ship's not moving
> that fast, compared to the aircraft, and even without compass reference, you
> still have, basically, a radio homing beacon, no? Also - over the horizon?
> At 250 Mc/s, probably not very far over the horizon, or?

I think I agree here, but it might take quite a bit of flying to make the corrections with enough data.

The YE antennae were always the highest on the ships, likely to get the best range out of the things. I suppose YGs were favored at airfields because one could make a mighty high tower on an island.

William Donzelli
aw288@osfn.org

End of BOATANCHORS Digest 2700
